In the Claims:

Please amend the claims as follows:

1. (Currently Amended) The method of claim 4 wherein the digital information comprises ~~A method for making error corrections on digital information coded as symbol sequences, for example~~ digital information stored in electronic memory systems or transmitted from and to these systems ~~providing the transmission of sequences incorporating a portion of error corrector code allowing the sequence which is more probably the original transmitted through the calculation of an error syndrome using a parity matrix to be restored when received, characterized in that the error code incorporated in the original sequence belongs to a non Boolean group~~.

2. (Currently Amended) A method according to claim 1, ~~characterized in that~~wherein said error corrector code is a linear code.

3. (Currently Amended) A method according to claim 1, ~~characterized in that~~ wherein said error corrector code recognizes an error of the 0 $\rightarrow$ 1 type from an error of the 1 $\rightarrow$ 0 type.

4. (Currently Amended) A method for making error corrections on digital information coded as symbol sequences, the method comprising:

providing the transmission of sequences incorporating a portion of an error corrector code which allows the sequence which is more probably the original transmitted through the calculation of an error syndrome using a parity matrix to be restored when received;

wherein the error corrector code incorporated in the original sequence belongs to a non Boolean group;

wherein ~~A method according to claim 1, characterized in that~~ said parity matrix comprises an identity matrix having a non-zero determinant;

wherein ~~different from 0, i.e. that a~~ each number belonging to the parity matrix is not a linear combination of other numbers belonging to the same matrix;

~~and~~

wherein operating in a ~~if in an additive~~ group (mod p), a parity bit number n-k is fixed and p is chosen so that $(2^{n-k} + 1) \leq p \leq 2^{n-k+1} - 1$~~with p different from 2 it is composed of the numbers p-1, p-2, ..., p-2^{n-k}~~.

wherein n equals a total number of bits in each sequence; and

wherein k equals the number of information bits forming the digital information.

5. (Currently Amended) A method according to claim ~~1~~4, ~~characterized in that~~ wherein said error corrector code belongs to an Abelian group.

6. (Currently Amended) A method according to claim ~~1~~4, ~~characterized in that~~ wherein said error corrector code is a code in ~~the~~ systematic form.

7-21. (Cancelled)